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PRODUCTION OF 1,4-BIS(3-AMINOPHENOXY)BENZENE

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Abstract: PURPOSE: To obtain the titled compound useful as a raw material of heat-resistant polymer, in high yield, by condensing hydroquinone with m- dinitrobenzene in the presence of a base using an aprotic polar solvent, and reducing the condensation product.

CONSTITUTION: Hydroquinone is condensed with m-dinitrobenzene in the presence of a base (e.g. NaOH) using an aprotic polar solvent (e.g. N- methylformamide), and the product is reduced to obtain 1,4-bis(3- aminophenoxy)benzene. The condensation reaction gives 1,4-bis(3- nitrophenoxy)benzene in high yield, and the objective compound is produced easily at a low cost by the second-stage reduction process. The reduction is preferably carried out by catalytic reduction or reduction with hydrazine from industrial viewpoint.

USE: Raw material of heat-resistant polymers such as polyamide, polyamide-imide, polyimide, etc.

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